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In October, 1962, 250 students in fourteen seminar groups, fifth graders through high school seniors, became Saturday "apprentices" to professional resource persons from the community. Students with high interest and potential extended the seminars for eight weeks in the fall semester. A second eight week series was presented in the spring. The program was financed through grants and local appropriations amounting to $16,000.

The students worked intensively with scientists, artists and other professionals, tackling real problems in the field.

A description of the seminars offered is included with the bulletin. There were workshops and field study in urban renewal included in the art seminars. The social science seminars consisted of three programs in local history, local government, and emerging Southeast Asian and African studies. Various writing experiments in poetry, drama, and composition were offered. Discovery and creativity were the bases for four offerings in science. The music program consisted of two seminars in harp and composition, and varied assembly programs.

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ED002370

COMMUNITY RESOURCES POOL
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT #1
ORANGEBURG, N. Y.

Dear Friend,

In answer to your inquiry, we are enclosing a copy of the press release concerning the seminars of the Community Resources Pool program in the South Orangetown Central School District #1, Orangeburg, N. Y., together with the descriptions of courses currently being conducted.

There is also available a detailed report of the experiences of the Community Resources Pool in integrating the program into a public school system, in which we have spelled out our method of student selection, recruiting resources personnel, reactions of students to the seminars, community relations, reports on seminars held in various disciplines, etc. $2.50

"1492" course material used for sixth grade seminar in the Spring term of 1962. With the year 1492 as a focal point, the special quality of the Renaissance was unfolded, covering the life of the time, the break-up of the close medieval world and the discoveries of modern new horizons (in geography, astronomy, literature, the arts, etc), the emergence of the new ideal of thhe universal man. $1.00

Please mail orders accompanied by your check to:

Mrs. Betty Friedan, Director
Community Resources Pool
205 River Road
Grandview, N. Y.

We hope this material will be helpful to you.

Very truly yours,
Betty Friedan
Betty Friedan, Director

District School Coordinator
Mr. Alexander F. Souter

ED002370

FROM: Community Resources Pool and South Orangetown Central School District #1

CONTACT: Mrs. Betty Friedan, Director (El 9-2034) Mr. A. F. Soutar, School Coordinator (El 9-3320)

Some 250 students, fifth graders to high school seniors, will work as Saturday "apprentices" to a research chemist, oceanographer, architect, city planner, lawyer, historian, anthropologist, painter, novelist, journalist, harpist, composer, cartoonist, theatre director and computer mathematician in the third year of South Orangetown's Community Resources Pool project.

Starting October 20, they will meet in fourteen seminar groups at the Tappan Zee High School for two hours every Saturday morning, with field work in laboratory, studio, the local community, nearby archaeological sites, urban renewal projects and the consulates of various Asian and African nations. Students voluntarily go to school on Saturday for these seminars, which run for eight weeks in the fall semester, with another 250 students attending a second 8-week series in the spring.

The seminar leaders, drawn from Rockland County's Intellectual Resources Pool of more than 100 scientists, artists, social scientists, political and business leaders and working professionals in all fields, have in many cases never taught children before.

A pilot project in the enrichment of public education, the Resources Pool project has attracted nationwide interest among educators for several unique aspects. It affects a much wider group of students than the usual program for the "academically gifted," for the seminar students comprise nearly 20 per cent of the total school population in grades 5-12 and they are selected by their teachers on the basis of their own interests, individual abilities and "creative potential" not always measured by school grades or test scores. The children get no grades or academic credit for these seminars. The project is also considered unique in the fact that the students work intensively over a considerable period of time with the scientists, artists and other professionals, tackling real problems in the field, which give them a sense of what it is actually like to be a scientist, or a city planner, archaelogist or composer.

This fall, an unsolved scientific problem concerning the chemistry of life will be tackled by a high school group, working with Dr. Hamed Anwar, head Pepsi-Cola research chemist. Such a group last year made an original scientific discovery in the field of chromotography, which has been submitted for scientific publication. Among problems considered for this year is the conversion of algae from the sea into food for human consumption. A junior high group will work on computer mathematics with Manik T. Alwani, of Lamont Geological Observatory, and sixth graders will serve their apprenticeship under Lamont oceanographer Marcus Langseth.

Using the same kind of approach to a real unsolved problem, the high school art seminar will survey the Village of Piermont with a city planner, Bernard Albin, and Rockland County architect, Seymour Gurlitz, designing an architectural model for its "urban renewal." Another group will approach the same problem as a social

science field study, working with a lwayer, Albert Holland, former chairman of the Rockland County Housing Council, city planner Richard May, political scientist Gene Setzer, who is a Nyack village trustee, and Robert Meylan, history teacher at Tappan Zee High School.

Another high school group will study the emerging states of Southeast Asia and Africa, working with Vassar anthropologist Alex Alland, recent U. S. Public Health Fellow in the Ivory Coast of Africa, Alpheus W. Jessup, long-time correspondent in Southeast Asia and Robert Dillon, Tappan Zee social studies teacher. And fifth graders will become apprentice archaelogists and historians, accompanying Suffern historian Gardner Watts on field explorations of Rockland County sites where historical "buried treasure" and artifacts of Indian culture can be unearthed.

A seventh and eighth grade group will work as apprentice painters, designing and painting a mural on the subject of Large Space (astronomic) versus Small Space (microscopic) under the direction of artist Hugh Mesibov. High School students will serve an apprenticeship in writing with novelist William A. Owens, director of the summer session on Columbia University. A junior high seminar will experiment with poetry with Melinda Talkington, former editor of European literature for Columbia Encyclopedia. A group of fifth and sixth graders will write a "nonsense book" with Vincent Fago, writer and illustrator of the "Peter Rabbit" cartoon. An older group will work as apprentice directors and actors in a seminar on the dramatic "method," with Henry Shapiro, after which they will assist him in directing a "children's theatre."

In the two music seminars, younger children will get a chance to work with a world-famous harpist and a serious composer. Musicians from the Pool have also planned with the music teachers a series of concert assembly programs in each of the district's six schools, featuring a professional harpist, a string quintet, an opera or madrigal group, a Philharmonic saxophonist, and a tympanist. Climax of the music program will be a concert in which the Tappan Zee High School chorus will sing with the Suburban Symphony.

The total project is conducted jointly by the Board of Education of the South Orangetown Central School District #1 and by the Resources Pool, under a $12,000 grant from the New World Foundation and an appropriation from the local school budget, which was increased this year to $4,000. The grant was obtained for the third successive year by the Rockland Foundation, which initiated the Resources Pool. The South Orangetown project is also sponsored by the district's PTA Council. Plans for each seminar are drawn up jointly by the scientists, artists and others in the Resources Pool with classroom teachers from each discipline, who integrate the seminars with the regular school curriculum through a system of Pool-School "coordinators," directly responsible to the Superintendent of Schools and the Board of Education.

Noting that the Resources project is only one dimension of a long-term attempt of the South Orangetown school system to motivate students to realize their own creative potential and to achieve standards of excellence, Superintendent of Schools Dr. Stanley L. Raub said: "The urgent need for identifying and developing talent

of our young people is of major economic and social importance. It is vital that we expand our efforts to help our youth acquire the skills and disciplines essential for the best start possible in their lives. Therefore, we must use all resources in our community, including talented men and women. We deeply appreciate the contribution made by the members of the Community Resources Pool and the many extra hours given by members of our own teaching staff. By working together, we strengthen our educational program for our students."

Educators who have been watching the Resources Pool experiment in Rockland County have questioned whether the willingness of busy professionals to work with school children would continue once the novelty had worn off. The project's director, Mrs. Betty Friedan, who originated the Resources Pool five years ago, points out:

"Most of us who started the Resources Pool five years ago are still working in it, and perhaps even more enthusiastically now that we see that it works. Professional assignments have taken some off to Borneo or the Arctic or Hollywood, but they come back. And new scientists and artists and anthropologists join us. Most of the problems that seemed so hard in the beginning have been solved, and the new possibilities that keep opening up before us, and the new problems, are exciting.

"Now that we've done this long enough to be able really to work with the teachers and get to know the children, we can follow their progress from year to year. It's always exciting for us, on Saturday morning, because the children are so interested. But it's even more exciting, when a high school teacher tells us that he's got a dozen honor students, all of whom want to be oceanographers or geophysicists -- and they turn out to be the ones who worked with Dr. Charles Drake at Lamont Observatory, back in sixth grade. Or that a girl who first got interested working with an architect in a Saturday seminar three years ago is now majoring in architecture in college. It's such a difficult and important matter, this whole question of identity - finding who or what you want to be -- that one can't help being excited over the very possibility that by such simple, easily structured experiences, people who have found creative identity in one of the new frontiers of thought can pass on that spark to the new generation.

"It may only be the experience a creative teacher gives, and gets, five days a week, but perhaps it is important too for children on the sixth day to get this spark, not from a teacher, but from acreative doer whom he might never otherwise meet. Maybe in another five years we'll know more clearly why and how it happens."

The new school coordinator for the Resources Pool this year is Alexander F. Soutar, assisted by James Brassil, Theodore Eiben, Lucien Lambert, Mrs. Florence Bloom, Michael McGrath, Nancy Allan, and Pat Ciricillo. Pool coordinators include Eraine Albin, Preston R. Bassett, Melinda Talkington and Janet Simons.

The administrative committee of the Resources Pool includes Dr. Henry Magid, William A. Owens and Mrs. Friedan for the Pool; Dr. Raub, Mr. Soutar and William Moran, vice-principal of Tappan Zee High School for the school district; Mrs. Leah Dalto for the PTA Council and Mr. Joseph Kastner, Dr. Louis English and Nathaniel Arbiter for the Rockland Foundation.

COMMUNITY RESOURCES POOL

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT NO. 1

Plans for Saturday Seminars
Fall, 1962

Director: Mrs. Betty Friedan

School Coordinator: Alexander Soutar

ART

Eraine Albin, Pool Coordinator

Nancy Allan, School Coordinator

WORKSHOP IN PAINTING AND COLLAGE
Grades 5-6

Seminar leader: D'Ann Fago, painter

Painter D'Ann Fago will conduct the workshop in painting and collage for fifth and sixth graders. The aim will be to allow each child to discover for himself the adventure that participating in painting can be and to discover and realize that art is a part of our everyday world and should be an expression of it. This year the class will be limited to 20 students.

PAINTING A MURAL
Grades 7 and 8

Seminar leader: Hugh Mesibov, painter

Under the direction of Hugh Mesibov, whose paintings hang in many museums, this seminar will paint a mural on the subject of Large Space (astronomic) vs. Small Space (microscopic). The group will do research in the subject matter and in color and design. They will plan and execute the mural. Research trips will be made, design organized, detail sketches made and transferred to the cartoon, canvas prepared and final painting made. Discussion, evaluation and final presentation to the school will culminate this seminar, which should give the participating students a sense of the method by which mural painters have worked since the time of the Renaissance until today.

FIELD STUDY IN ARCHITECTURAL DESIGN
AND URBAN RENEWAL

Seminar leaders:
Bernard Albin, city planner
Seymour Gurlitz, architect

Mr. Albin is currently working on the redesign of the New York City Civic Center and was formerly the director of architectural studies of New York City's Community Renewal Program. Mr. Seymour Gurlitz is a Pearl River architect whose design work is responsible for many of the new buildings in Rockland County. Together they will conduct a seminar on urban renewal and architectural design, using the Village of Piermont as their subject for research. Surveys of the town by students will lead to a cardboard model of existing conditions. Field trips to point of planning and architectural interest in the County, evaluation and discussion and study of the planning problems of Piermont will culminate in a model of the future Piermont as designed by the students. No previous architectural training is required. By having the students study one of their local areas, a broader understanding of current and future planning problems and their solutions will be the expected outcome of this program as well as a better understanding of the approach to architectural design.

SOCIAL SCIENCE

Betty Friedan, Pool Coordinator — Florence Bloom, School Coordinator

BURIED TREASURE: FIELD EXPLORATIONS IN ARCHEOLOGY, LOCAL HISTORY AND PRE-HISTORY
Grade 5

Seminar leader: Gardner F. Watts, Suffern historian

In this seminar, students will become apprentice archeologists and historians, doing actual explorations of Rockland County sites, where historical "buried treasure" can be unearthed. As most of the field trips would be impossible in rainy weather, there must be some flexibility in the schedule. Meetings in the school or museum (Tappan Zee Historical Society) will be kept in reserve for inclimate weather. If there are five parents or teachers who would be willing to help transport, they would be most welcome to join the class.

Oct. 20, 10 a.m. - 12 noon
Experiments in archeology, importance of both research and imagination in selecting a site, clues to occupation, preserving the evidence, keeping records.

Oct. 27, 9 a.m. - 1 p.m.
Visit to rock overhang near the Torne in the hamlet of Ramapo which has already yielded many artifacts from various periods of Indian culture. How to recognize evidences of primitive man, piecing the story puzzle together.

Nov. 3, 10 a.m. - 1 p.m.
Henry Hudson's world, a walk along the west shore of the Hudson River. What did he see, hear, feel? How did the people, the dwellings the boats differ? What birds and animals were there?

Nov. 10, 10 a.m. - 12 noon
The Andre-Arnold story at our doorstep. Visit To House, DeWindt House and grounds, hanging hill, the churchyard (make rubbings).

Nov. 17, 10 a.m. - 12 noon
The spy and the traitor, the fall of the hero, compiling the evidence. The world during the revolution. What the gravestones told. (In case of bad weather on the 10th, this class period will be given first).

Dec. 1, 9 a.m. - 12 noon
A hunt for the boundary marker New York-New Jersey, 1774, a trip to the wooded area behind the Suffern K-3 school. The colonial world changes. What was it like then? Using old maps, old records, our eyes.

Dec. 8, 10 a.m. - 1 p.m.
Stony Point battlefield, a fort lost and gained and lost again. Following the path of General Wayne (class meeting if inclimate).

FIELD STUDY OF A SOCIAL PROBLEM:
URBAN RENEWAL
Grades 7, 8 and 9

Seminar leader: Albert Holland, lawyer, former Chairman, Rockland County Housing Council, will be assisted by :
Richard May, city planner
Gene Setzer, Nyack Village Board Trustee, and political scientist
Robert Meylan, teacher, TZHS.

This seminar will investigate and study the needs, the problems and methods available for rebuilding of urban areas. It will include an actual survey and study of a problem area to be conducted by the students, after investigating the Nyack Urban Renewal program with the help of its leaders.

1. Introduction to the need for rebuilding and rehabilitation. A. Holland, R. Meylan
2. A guided field trip to areas in need of rebuilding and rehabilitation. A. Holland, R. Meylan
3. The problems of rebuilding and rehabilitation, planning, financing, housing, relocation.
4. How the facts are gathered to determine needs and problems. An introduction to the seminar project: An actual study of an urban area with problems. A. Holland, G. Setzer, R. Meylan
5. Field trip to make survey and gather facts for the study. A. Holland
6. Methods available for rebuilding and rehabilitation. Federal, State and Local Programs. Richard May
7. Correlation of data gathered in survey.
8. Summation and a report on data with recommendation as to available methods for attacking problem.

THE EMERGING STATES OF SOUTHEAST ASIA AND AFRICA
Grades 10, 11, 12

Seminar leaders: Alex Alland, instructor in anthropology, Vassar College, U. S. Public Health Fellow, Ivory Coast, 61-62
Alpheus W. Jessup, journalist, long-time correspondent in Southeast Asia.

This seminar will examine the cultural background of selected countries with a view toward understanding modern problems of nationhood, national goals, and the place of these countries in the world community. The countries chosen are: The Phillipines, Indonesia, Malaya and the new states of West Africa. The students will work from primary source materials -- newspapers, writings of African leaders, discussions with Asian and African representatives in this country, visits to the UN, etc.

WRITING

Melinda Talkington, Pool Coordinator

Lucien Lambert, School Coordinator

WRITING A NONSENSE BOOK
Grades 5 and 6

Seminar leader: Vincent Fago, writer and illustrator of "Peter Rabbit" cartoon, and of several children's books.

This is a seminar to encourage the creative spark in children by approaching their creative expression from the standpoint of phantasy and nonsense, which is playful in character but which deals seriously with creative organization and form. Each child will dummy his own book of nonsense. At the same time, material will be produced that will go into the making up of a composite dummy which will be the product of the entire class. We will use devices such as a magic lantern to project published nonsense writings, drawings, and books, and also to show work in progress. An example of one of the approaches would be to have children draw three vertical lines and have them relate three words to the three lines, then elaborate and interrelate these until they add up to some sense or nonsense.

EXPERIMENT IN POETRY
Grades 7 and 8

Seminar Leader: Melinda Talkington, cultural historian and editor

In this seminar, students will be given an introduction to the poetic method, and, after reading and dissecting the poems of others, will experiment in poetic form themselves. As poetic expression is multiform, there will be no hard and fast lines as to how they will conduct their investigations.

The principal aims will be to give students a working knowledge of the craft of poetry and to stimulate their associative and synthetic abilities. The end product will be a group of poems about Rockland County.

APPRENTICESHIP IN WRITING
Grades 9 and 10

Seminar leader: William A. Owens, novelist and director of the summer session at Columbia Univ. in cooperation with John A. Mayer and Kevin McFadden, English Dept., TZHS

This will be a joint project in the apprenticeship of writing. Teachers and students will discuss such elements of fiction as structure, characterization, dialogue and style. There will be some discussion of well-known short stories. Manuscripts written by the members of the seminar will be analyzed.

EXPERIMENTS IN THE DRAMATIC METHOD
Grades 11 and 12

Seminar leader: Henry Shapiro, student of Children's Theatre, Teachers' College

In this seminar, students will create dramatic scenes and characters by improvising from their own experience in the way that has become known in the professional theatre as "The Method." Instead of rehearsing a play for formal production, students will informally produce the basic elements of plays at each session. They will be given an article or a prop, real or imaginary, and told to react, either by pantomime or with lines that they make up themselves. There is nothing to limit them but their own imaginations. Or a group of students are

given the bare outlines of a story situation and a few minutes to work out details and the outcome; then they are on stage acting without benefit of playwright, director or scenic designer. Now a student is a pickpocket with boxing gloves on, or an old lady who just loves the "twist", or a super-genius six-year-old in kindergarten.

Hopefully students will get the feeling of how plays are built and made dramatically interesting. In this course, students will also be apprentice directors, because they will be expected to teach what is learned in the Fall session to lower graders in the Spring session.

SCIENCE

P. R. Bassett, Pool Coordinator — Theodore Eiben, School Coordinator

COMPUTER MATHEMATETICS
Grade 6

Seminar Leader: Manik Talwani, research chemist, Lamont Geological Observatory

These meetings will familiarize the group with some of the tools and concepts of automation. We will show how a machine can store and use information in the form of numbers. We will describe the basic components and logic of a particular small-scale digital computer (IBM 1620). The students will learn enough about this machine to be able to write a simple program to solve a problem.

If the group is not too large, each student will have a chance to try his program on the computer at Lamont Observatory. This material is not technical and involves only simple concepts of arithmetic and logic. Children are often surprised to learn how easy it is to use a digital computer. We will learn about finary arithmetic and see the similarities with decimal arithmetic and learn how to convert numbers from one system to another.

We will also learn some interesting facts about the theory of numbers, the importance of zero and the decimal notation and some simple concepts of modern algebra.

EARTH SCIENCE
Grades 7 and 8

Seminar leader: Marcus Langseth, oceanographer, Lamont Geological Observatory

These seminars are planned to cover the subjects of geology, physics and oceanography. The available time will be devoted between classroom instruction, and discussion, field trips, tours and special films.

Oct. 20:
An introduction to oceanography with an historical review of sea explorations. Tools for exploring the ocean air masses and the ocean floor will be discussed. Film to follow in the second hour.

(cont.)

Oct. 27.
Continue discussion of exploratory instruments used in ocean configurations of the sea floor and ocean currents, followed by a trip to Lamont.
Nov. 3.
Recent results of oceanographic explorations, including a discussion of the origin of the oceans. Film on marine life in the second hour.
Nov. 10.
Discussion of marine biology with an introduction to geology and the fossil record. During the second hour we will inspect rock specimens, do an exercise, and prepare for the field trip to come.
Nov. 17.
Field trip to examine the Palisades Intrusive Sill. (2-hour trip; date to be flexible to take advantage of good weather).
Dec. 1.
Discussion of the field trip and other aspects in geology. Film on geology to be shown during the second hour.
Dec. 15.
First hour will be devoted to topics on planetary sciences. Features of the lunar surface and some characteristics of near planets will be discussed. Second hour is left open for discussion, questions, review, etc.

THE ROLE OF CHEMISTRY IN LIVING SYSTEMS
Grades 9-12

Seminar Leader: Dr. Hamed M. Anwar,
Chief Research Chemist, Pepsi-Cola

In this seminar, students will again work on an unsolved problem in biochemical reactions, around which they will investigate in depth the role of chemistry in living systems. General topics explored will include:

I. The Nature of Life: Animals. Plants.

II. Scope of Biochemistry: Enzymes. Vitamins. Trace Elements. Amino Acids

III. Photosynthesis

IV. Can chemistry help eliminate starvation and hunger in the world?

The laboratory work will occupy approximately half of each seminar session.

APPRENTICESHIP IN SCIENCE

If there are enough qualified students, a new kind of seminar will be organized in which students work in terms of two or three on an experimental project under the supervision of one of the Lamont or other scientists in the Resources Pool. The project will be done after school hours, in the scientist's laboratory or the school laboratory, at hours individually scheduled between the students and the scientist. The seminar as a whole will meet once a month to report progress and results. This will be a continuing seminar, to which students will be assigned only after demonstration of serious interest and ability, and sufficient background in the given field. This seminar will also be open to interested teachers.

MUSIC

Janet Simons, Pool Coordinator — Pat Ciricillo, School Coordinator

HARP SEMINAR
Grades 4, 5 and/or 6

Seminar leader: Lucile Lawrence, Professional harpist

Lucile Lawrence will lead a seminar in harp for 20 children. Arrangements will be made for students to rent harps for $10. They will then be instructed by Miss Lawrence in playing the harp. This seminar is planned for the Fall, and it is hoped that after introducing the children to this instrument, enough of them will be interested in continuing to study the instrument so that arrangements can be made for them to follow up with instruction the rest of the year, as was done with the recorder after last year's seminar. Final plans for this seminar will be made when Miss Lawrence returns from a tour on October 1.

COMPOSING SEMINAR
Grades 4, 5 and/or 6

Seminar leader: Herbert Haufrecht, Composer

This seminar planned for the spring will have, hopefully, the composer Herbert Haufrecht as its leader. Haufrecht is a serious composer who has had his compositions performed by symphony orchestras and concert soloists. Perhaps his best known work is "Ferdinand the Bull" for narrator and orchestra. He is well known on Young People's Records for his "Robin Hood," "Walk in the Forest," "The Little Cow-Girl," and many others. One of his works for clarinet and piano, "Caprice," may be included in Trimboli's assembly program on March 22. He has also been an editor at Associated Music Company for many years and is presently music director of Young Audiences, Inc., and is working on a textbook of music appreciation for elementary grades. He would like very much to lead a seminar in composing, and hopes that his schedule will permit him to do so. Further information about this seminar will be presented in the spring.

ASSEMBLY PROGRAMS:

Concert assembly programs were planned after a meeting of music teachers, Mr. Thibeau; and musicians from the Pool, represented by Edward and Janet Simons and Donald Waxman. Combining the factors of the requests of the music teachers and the various schools, the availability of professionals, the budget, and the advice of the professionals, the following programs have been planned:

Nov. 9 - HARP PROGRAM: Lucile Lawrence, harpist, will present assembly programs demonstrating the instrument and music written for harp in the four elementary schools and perhaps in the high school.

Feb. 8 - STRING QUINTET PROGRAM: Another program of string music arranged by Edward Simons, will consist of 2 violinists, 1 violist, cellist and bass violist. This program will include music for this particular combination of instruments as well as some discussion of the string section of a symphony orchestra and will include some music written for orchestra. There will be emphasis in the demonstration on the bass viol, since this instrument has not previously been presented in the programs. This program to take place in the Orangeburg, Blauvelt and Sparkill schools.

(cont.)